UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d)

of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): August 6, 2020

AVROBIO, INC.

(Exact name of registrant as specified in its charter)

Delaware diction (State or other jurisdi of incorporation)

001-38537 (Commission File Number) 81-0710585 (I.R.S. Employer Identification No.)

One Kendall Square Building 300, Suite 201 Cambridge, MA 02139 rincipal executive offices, including zip code) (Address of principal exect

(617) 914-8420 (Registrant's telephone number, including area code)

Not Applicable (Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

	Trading	Name of each exchange
Title of each class	symbol(s)	on which registered
Common Stock, \$0.0001 par value per share	AVRO	Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company 🗵

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 2.02. Results of Operations and Financial Condition.

On August 6, 2020, AVROBIO, Inc. (the "Company") issued a press release containing information about the Company's results of operations for the three and six months ended June 30, 2020. A copy of this press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

Item 7.01. Regulation FD Disclosure.

On August 6, 2020, the Company updated its corporate presentation for use in meetings with investors, analysts and others. A copy of the slide presentation is furnished as Exhibit 99.2 to this Current Report on Form 8-K.

The information in this Form 8-K (including Exhibits 99.1 and 99.2) shall not be deemed "filed" for purposes of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

- Press release issued by AVROBIO, Inc., dated August 6, 2020. AVROBIO, Inc. slide presentation, dated August 6, 2020. 99.1
- 99.2

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

AVROBIO, INC.

Date: August 6, 2020

By: /s/ Geoff MacKay Geoff MacKay President and Chief Executive Officer

AVROBIO Reports Second Quarter 2020 Financial Results and Provides Business Update

New data indicate stable kidney function across the two Fabry disease clinical studies up to 32 months

New six-month Phase 2 FAB-201 data from first patient treated using AVROBIO's plato [®] gene therapy platform show continued reduction in toxic metabolite plasma lyso-Gb3 and increased leukocyte and plasma enzyme activity

Sustained clinical data across multiple other measures for Phase 1 and Phase 2 trials for Fabry disease

First patient has been dosed in global Phase 1/2 clinical trial for Gaucher disease type 1 and second patient has been dosed in investigator-sponsored Phase 1/2 clinical trial for cystinosis

CAMBRIDGE, Mass., Aug. 6, 2020 — <u>AVROBIO, Inc</u>. (Nasdaq: AVRO), a leading clinical-stage gene therapy company with a mission to free people from a lifetime of genetic disease, today reported financial results for the second quarter ended June 30, 2020 and provided a business update.

"We have continued to progress our clinical trials despite the challenges of the COVID-19 global pandemic and have now dosed 12 patients across four clinical trials, with initial data from the first patient dosed in our Gaucher program expected later this year," said Geoff MacKay, AVROBIO's president and CEO. "As we look at the new data that we released this quarter, we're pleased to see that longer-term measures suggest kidney function is stable across our Fabry trials. This is a critically important functional measure for people living with Fabry disease, as Fabry disease progression is characterized by a marked decrease in kidney function. We believe these clinically meaningful data further reinforce the potential of our single-dose investigational gene therapies to deliver a new standard of care for lysosomal disorders."

Clinical Trials of AVR-RD-01 in Fabry Disease: Data Updates

AVROBIO is conducting two clinical trials for its investigational gene therapy for Fabry disease, which continue to generate data relating to durability and tolerability with interim results that could support potential first-line use.

Phase 2 FAB-201 clinical trial

Four patients have been dosed in the global <u>Phase 2 FAB-201 trial</u> evaluating treatment-naïve patients. New data from these patients, now six to 22 months post-gene therapy, include:

- All four patients show sustained increased leukocyte and plasma enzyme activity, suggesting the continued production of an endogenous supply of functional alpha-galactosidase (AGA) enzyme.
- Levels of the toxic metabolite plasma lyso-Gb3, a key biomarker for monitoring Fabry disease, have decreased 86, 49 and 59 percent from
 baseline for Patients 1, 3 and 4 at 22, 12 and six months, respectively. Patient 2, a cardiac variant who does not have classic Fabry disease, did
 have very low levels of plasma lyso-Gb3 at baseline and hence did not show a meaningful decrease in plasma lyso-Gb3 levels, as expected for
 such a variant.
- A kidney biopsy was successfully obtained on Patient 3, but due to human error at the external laboratory vendor, appropriate handling of the biopsy failed and the kidney Gb3 inclusions could not be evaluated and will not be available. AVROBIO's Quality Assurance team has worked closely with the external vendor to identify the cause of the error and determine additional protocols for implementation by the vendor that are designed to prevent similar errors in the future.
- Other data and important functional measures obtained from Patient 3 include:
 - Kidney function measures, including estimated glomerular filtration rate (eGFR) and measured glomerular filtration rate (mGFR), which
 indicated the patient's kidney function is stable compared to baseline, consistent with the other patients in the AVR-RD-01 Phase 1 and
 Phase 2 trials at the 48-week timepoint.
 - Cardiac function measures, including ejection fraction (EF), left ventricular (LV) mass and LV mass index, remain stable and in the normal range.
- As previously reported, the kidney biopsy for Patient 1 in the trial showed an 87-percent reduction in Gb3 inclusions per peritubular capillary
 compared to baseline. Patient 2, a cardiac variant who does not have classic Fabry disease, did not have any Gb3 accumulated in the kidney at
 baseline and as such did not demonstrate any response in this endpoint, as expected for such a variant. The kidney biopsy for Patient 4 is expected
 in 1Q 2021.
- Patient 4, now six months following dosing with drug product manufactured using AVROBIO's plato[®] gene therapy platform, showed a stable vector copy number (VCN) of 1.17 and AGA enzyme activity 5.1-fold higher in leukocytes and 3.7-fold higher in plasma compared to the mean activity level of the first three patients in the same trial at the same timepoint, who were treated using an academic platform.
- New eGFR data, which is a measure of kidney function, was stable across all patients in the trial up to 22 months following dosing. eGFR is well
 documented in natural history studies to decline in classic male Fabry disease patients and we interpret the consistent emerging data set showing
 stable eGFR as positive.

Anticipate patient dosing may resume incrementally, as allowed by hospitals and travel restrictions, but further delays are expected as sites remain
impacted by COVID-19-related care. We have multiple patients identified as possible trial participants once hospitals and travel restrictions allow.

Phase 1 FACTs (Fabry disease Clinical research and Therapeutics) trial for Fabry disease

Five patients are participating in the fully enrolled Phase 1 investigator-led clinical trial. New data from these patients, now all out one year or more, up to 32 months post gene therapy, include:

- All five patients show sustained increased leukocyte and plasma enzyme activity.
- Toxic metabolite plasma lyso-Gb3 levels are lower or similar to the levels observed when the patient received only enzyme replacement therapy (ERT) prior to administration of AVR-RD-01. Plasma lyso-Gb3 levels for Patient 4, who discontinued ERT six months post gene therapy administration, showed a slight increase in plasma lyso-Gb3 levels but his lyso-Gb3 levels remain within range for Fabry disease patients on ERT observed in this study and he remains off ERT.
- VCN across all patients is stable, with a range between 0.1 and 0.6, up to 32 months following dosing.
- New eGFR data was stable up to 32 months following dosing across four patients in this trial. The other patient who entered the trial with
 moderate chronic kidney disease and an eGFR below 50 mL/min/1.73m², has not stabilized his kidney function, which is to be expected
 given the low initial eGFR. He also remains on ERT.

Overall, all patients in the Phase 1 trial who discontinued ERT after dosing with AVR-RD-01 remain off ERT.

As of the most recent safety data cut-off date of April 23, 2020, there have been no serious adverse events (SAEs) attributed to the AVR-RD-01 drug product in either the Phase 1 or Phase 2 trial. Through the safety data cut-off date, four SAEs have been reported in the FAB-201 trial and two SAEs in the Phase 1 trial. Across both studies, each of the SAEs has been consistent with expectations of the stem cell mobilization, conditioning regimen, underlying disease or pre-existing conditions. Anti-AGA antibody titers have been observed in four patients in the Phase 1 trial and two patients in the Phase 2 trial. We believe none of these are of clinical significance.

Slides with these new data can be found in the company's current corporate overview presentation here.

Other Program Updates and Milestones

AVR-RD-04 Phase 1/2 investigator-sponsored clinical trial for cystinosis

AVROBIO's investigational gene therapy for cystinosis is being evaluated in a single-arm, <u>Phase 1/2 trial</u> sponsored by the University of California, San Diego (UCSD)¹ and is expected to enroll up to six patients.

- Patient 2 was dosed in June 2020.
- Six-month data for both eGFR and serum creatinine measures from Patient 1 was presented at ASGCT in May 2020.
- Patient recruitment activities continue.

AVR-RD-02 Phase 1/2 trial for Gaucher disease

AVROBIO's investigational gene therapy for Gaucher disease is being studied in the <u>GuardOne clinical trial</u>, a Phase 1/2 trial to evaluate the safety and efficacy in individuals with Gaucher disease type 1. The trial is expected to enroll eight to 16 patients between the ages of 18 and 35 who are treatment-naïve and on ERT.

- Patient 1 was dosed in AVROBIO's global Phase 1/2 clinical trial in July 2020.
- Subsequent new patient dosing and enrollment timelines have been impacted by the COVID-19 pandemic. However, patient recruitment activities continue for our clinical sites in Australia and Canada.
- New clinical sites expected to open in the U.S. and Israel in the fourth quarter of the year.

AVR-RD-03 preclinical program in Pompe disease

AVROBIO's research program for Pompe disease, AVR-RD-03, is currently advancing a candidate through pre-clinical studies.

- Data presented at ASGCT in May 2020 showed the ability of AVROBIO's optimized lentiviral vectors, in combination with a proprietary Glycosylation-Independent Lysosomal Targeting (GILT)-tag technology, to demonstrate significant glycogen reduction in both the muscle and central nervous system of a Pompe disease mouse model.
- A preclinical Investigational New Drug (IND)-enabling proof-of-concept study is currently underway and expected to conclude in 2020.
- 1 Collaborator-sponsored Phase 1/2 clinical trial of AVR-RD-04 is funded in part by grants to UCSD from the California Institute for Regenerative Medicine (CIRM), Cystinosis Research Foundation (CRF) and National Institutes of Health (NIH).

Business Updates

- Kim Raineri has been <u>appointed</u> as chief manufacturing and technology officer (CMTO). Kim Warren, Ph.D., AVROBIO's founding CMTO, will
 retire at the end of July but will continue in a consultant role during the transition phase.
- AVROBIO expects to host its first R&D Day virtually in 4Q 2020 and intends to provide an update on ongoing clinical programs, a review of other pipeline programs and an in-depth overview of its plato platform.

Second Quarter 2020 Financial Results

AVROBIO reported a net loss of \$28.8 million for the second quarter of 2020 as compared to a net loss of \$16.1 million for the comparable period in 2019. This increase was due to increased research and development expenses, as well as increased general and administrative expenses.

Research and development expenses were \$20.9 million for the second quarter of 2020 as compared to \$12.3 million for the comparable period in 2019. This increase was driven by increased program development activities related to the advancement of the company's pipeline, as well as increased personnel-related costs resulting from an increase in employee headcount, which includes the impact of non-cash stock-based compensation.

General and administrative expenses were \$8.0 million for the second quarter of 2020 as compared to \$4.3 million for the comparable period in 2019. This increase was primarily due to an increase in employee headcount, which includes the impact of non-cash stock-based compensation, as well as professional fees and consulting costs.

As of June 30, 2020, AVROBIO had \$244.4 million in cash and cash equivalents, as compared to \$187.0 million in cash and cash equivalents as of December 31, 2019. Based on the company's current operating plan, AVROBIO expects its cash and cash equivalents as of June 30, 2020 will enable the company to fund its operating expenses and capital expenditure requirements into the second half of 2022.

About AVROBIO

Our mission is to free people from a lifetime of genetic disease with a single dose of gene therapy. We aim to halt or reverse disease throughout the body by driving durable expression of functional protein, even in hard-to-reach tissues and organs including the brain, muscle and bone. Our clinical-stage programs include Fabry disease, Gaucher disease and cystinosis and we also are advancing a program in Pompe disease. <u>AVROBIO</u> is powered by the plato[®] gene therapy platofmr, our foundation designed to scale gene therapy worldwide. We are headquartered in Cambridge, Mass., with an office in Toronto, Ontario. For additional information, visit <u>avrobio.com</u>, and follow us on <u>Twitter</u> and <u>LinkedIn</u>.

Forward-Looking Statements

This press release contains forward-looking statements, including statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These statements may be identified by words and phrases such as "aims," "anticipates," "believes," "could," "designed to," "estimates," "expects," "forecasts," "goal," "intends," "may," "plans," "possible," "potential," eseks," will," and variations of these words and phrases or similar expressions that are intended to identify forward-looking statements. These forward-looking statements include, without limitation, statements regarding our business strategy for and the potential therapeutic benefits of our prospective product candidates; the design, commencement, enrollment and timing of ongoing or planned clinical trials and regulatory pathways; the timing of patient recruitment and enrollment activities, clinical trial results, and product approvals, including the expected timing of the kidney biopsy for the fourth patient in our Phase 2 FAB-201 clinical trial for AVR-RD-01; the timing of our ongoing preclinical studies, including our IND-enabling proof-of-concept study of AVR-RD-03 for Pompe disease; the anticipated benefits of our gene therapy platform including the potential impact on our commercialization activities, timing and likelihood of success; the expected benefits and results of our implementation of the plato platform in our clinical trials and gene therapy programs; the expected safety profile of our investigational gene therapies; the potential impact of the COVID-19 outbreak on our clinical trial programs and business generally, as well as our plans and expectations with respect to the timing and resumption of any development activities that may be temporarily paused as a result of the COVID-19 outbreak; and statements regarding our financial and cash position and expected cash runway. Any such statements in this press release that are not statements of historical fact may be deemed to be forward-looking statements. R

Any forward-looking statements in this press release are based on AVROBIO's current expectations, estimates and projections about our industry as well as management's current beliefs and expectations of future events only as of today and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to, the risk that any one or more of AVROBIO's product candidates will not be successfully developed or commercialized; the risk of cessation or delay of any ongoing or planned clinical trials of AVROBIO or our collaborators; the risk that AVROBIO may not successfully recruit or enroll a sufficient number of patients for our clinical trials; the risk that AVROBIO may not realize the intended benefits of our gene therapy platform, including the features of our plato platform; the risk that prior results, such as signals of safety, activity or durability of effect, observed from pre-clinical or clinical trials, will not be replicated or will not continue in ongoing or future

studies or trials involving AVROBIO's product candidates; the risk that we will be unable to obtain and maintain regulatory approval for our product candidates; the risk that the size and growth potential of the market for our product candidates will not materialize as expected; risks associated with our dependence on third-party suppliers and manufacturers; risks regarding the accuracy of our estimates of expenses and future revenue; risks relating to our capital requirements and needs for additional financing; risks relating to clinical trial and business interruptions resulting from the COVID-19 outbreak or similar public health crises, including that such interruptions may materially delay our development timeline and/or increase our development costs or that data collection efforts may be impaired or otherwise impacted by such crises; and risks relating to our ability to obtain and maintain intellectual property protection for our product candidates. For a discussion of these and other risks and uncertainties, and other important factors, any of which could cause AVROBIO's actual results to differ materially and adversely from those contained in the forward-looking statements, see the section entitled "Risk Factors" in AVROBIO's most recent Quarterly Report, as well as discussions of potential risks, uncertainties and other important factors in AVROBIO's subsequent filings with the Securities and Exchange Commission. AVROBIO explicitly disclaims any obligation to update any forward-looking statements except to the extent required by law.

Investor Contact:

Christopher F. Brinzey Westwicke, an ICR Company 339-970-2843 chris.brinzey@westwicke.com

Media Contact:

Tom Donovan Ten Bridge Communications 857-559-3397 tom@tenbridgecommunications.com

CONDENSED CONSOLIDATED BALANCE SHEETS (In thousands) (Unaudited)

	June 30, 2020	Dee	cember 31, 2019
Cash and cash equivalents	\$ 244,380	\$	187,043
Prepaid expenses and other current assets	6,640		8,658
Property and equipment, net	3,580		3,696
Other assets	968		1,117
Total assets	\$ 255,568	\$	200,514
Accounts payable	\$ 2,619	\$	3,949
Accrued expenses and other current liabilities	12,792		10,068
Deferred rent, net of current portion	370		484
Total liabilities	15,781		14,501
Total stockholders' equity	239,787		186,013
Total liabilities and stockholders' equity	\$ 255,568	\$	200,514

CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (In thousands, except share and per share data) (Unaudited)

	Three Months Ended June 30, 2020 2019			_	Six Months End 2020		ded June 30, 2019	
Operating expenses:		2020		2015		2020		2015
Research and development	\$	20,866	\$	12,267	\$	39,140	\$	24,713
General and administrative		7,991		4,345		16,306		9,599
Total operating expenses	_	28,857	_	16,612		55,446		34,312
Loss from operations		(28,857)		(16,612)		(55,446)		(34,312)
Total other income (expense), net		29		557	_	645		1,154
Net loss	\$	(28,828)	\$	(16,055)	\$	(54,801)	\$	(33,158)
Net loss attributable to common stockholders – basic and diluted	\$	(28,828)	\$	(16,055)	\$	(54,801)	\$	(33,158)
Net loss per share attributable to common stockholders — basic and diluted	\$	(0.80)	\$	(0.67)	\$	(1.57)	\$	(1.38)
Weighted-average number of common shares used in computing net loss per share attributable to common stockholders—basic and diluted	30	6,104,919	24	4,046,262	3	4,885,804	2	3,985,717

AVROBIO

Company Presentation August 2020

Disclaimer

This presentation has been prepared by AVROBIO, Inc. ("AVROBIO") for informational purposes only and not for any other purpose. Certain information contained in this presentation and statements made orally during this presentation relate to or are based on studies, publications, surveys and other data obtained from third-party sources and AVROBIO's own internal estimates and research. While AVROBIO believes these third-party sources to be reliable as of the date of this presentation, it has not independently verified, and AVROBIO makes no representation as to the adequacy, fairness, accuracy or completeness of any information obtained from third-party sources. While AVROBIO believes its internal research is reliable, such research has not been verified by any independent source.

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the potential impact of the COVID-19 outbreak on our clinical trial programs and business generally, as well as our plans and expectations with respect to the timing and resumption of any development activities that may be temporarily paused as a result of the COVID-19 outbreak; the market opportunity for and anticipated commercial activities relating to our investigational gene therapies; and statements regarding our financial and cash position and expected cash runway. Any such statements in this presentation that are not statements of historical fact may be deemed to be forward-looking statements.

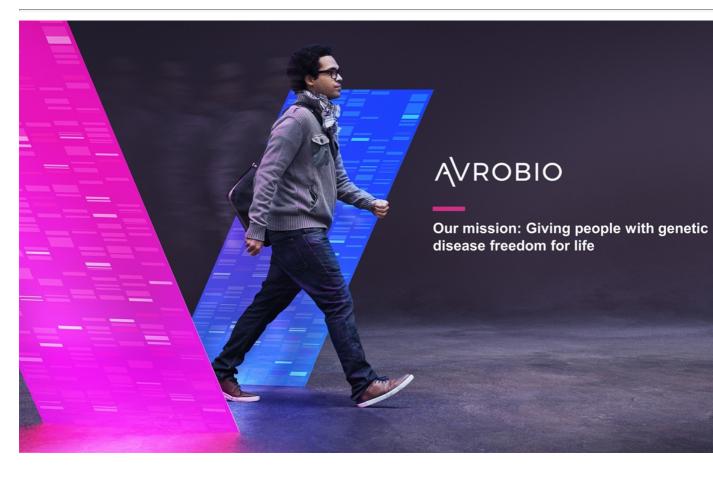
Any forward-looking statements in this presentation are based on our current expectations, estimates and projections about our industry as well as management's current beliefs and expectations of future events only as of today and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to, the risk that any one or more of our product candidates will not be successfully developed or commercialized; the risk of cessation or delay of any ongoing or planned clinical trials of AVROBIO or our collaborators; the risk that we may not successfully recruit or enroll a sufficient number of patients for our clinical trials; the risk that we may not realize the intended benefits of our gene therapy platform, including the features of our plato platform; the risk that our product candidates of procedures in connection with the administration thereof will not have the safety or efficacy profile that we anticipate; the risk that prior results, such as signals of safety, activity or durability of effect, observed from preclinical or clinical trials, will not be replicated or will not continue in ongoing or future studies or trials involving our product candidates; the risk that we will be unable to obtain and maintain regulatory approval for our product candidates: the risk that the size and growth potential of the market for our product candidates will not

materialize as expected; risks associated with our dependence on third-party suppliers and manufacturers; risks regarding the accuracy of our estimates of expenses and future revenue; risks relating to our capital requirements and needs for additional financing; risks relating to clinical trial and business interruptions resulting from the COVID-19 outbreak or similar public health crises, including that such interruptions may materially delay our development timeline and/or increase our development costs or that data collection efforts may be impaired or otherwise impacted by such crises; and risks relating to our ability to obtain and maintain intellectual property protection for our product candidates. For a discussion of these and other risks and uncertainties, and other important factors, any of which could cause AVROBIO's actual results to differ from those contained in the forwardlooking statements, see the section entitled "Risk Factors" in AVROBIO's most recent Quarterly Report on Form 10-Q, as well as discussions of potential risks, uncertainties and other important factors in AVROBIO's subsequent filings with the Securities and Exchange Commission. AVROBIO explicitly disclaims any obligation to update any forward-looking statements except to the extent required by law

Note regarding trademarks: plato is a registered trademark of AVROBIO. Other trademarks referenced in this presentation are the property of their respective owners.

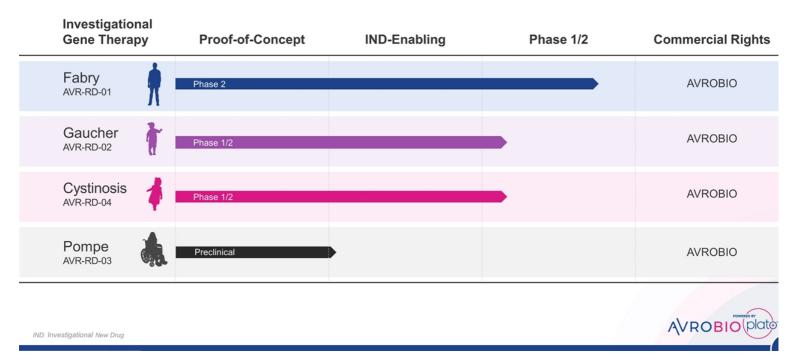
Note regarding future updates: The statements contained in this presentation reflect our current views with respect to future evets, which may change significantly as the global consequences of the COVID-19 pandemic rapidly develop. Accordingly, we do not undertake and specifically disclaim any obligation to update any forward-looking statements.





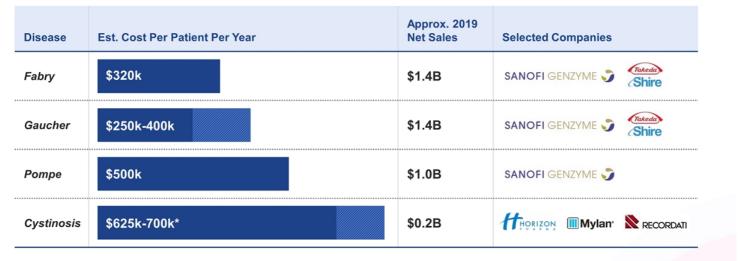
Multiple programs in the clinic





Addressing multi-billion dollar market opportunity

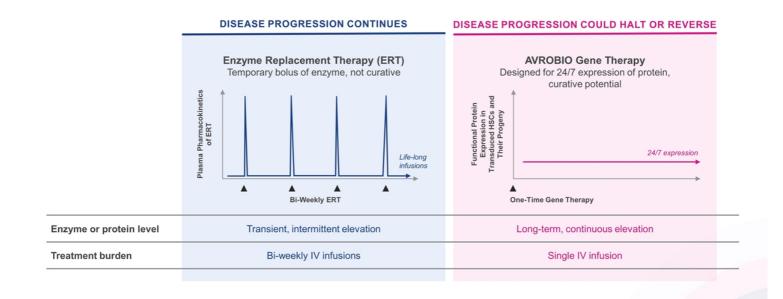
CURRENT STANDARD OF CARE COSTS



Sources: Rombach S et al, Orphanet J Rare Dis, 2013; van Dussen L et al, Orphanet J Rare Dis, 2014; WAC pricing from Redbook; 2019 Net Sales from company annual and other reports * for Horizors Procysbi oral therapy (delayed release cysteamine bitartrate) Note: Shire acquired by Takeda in 2019



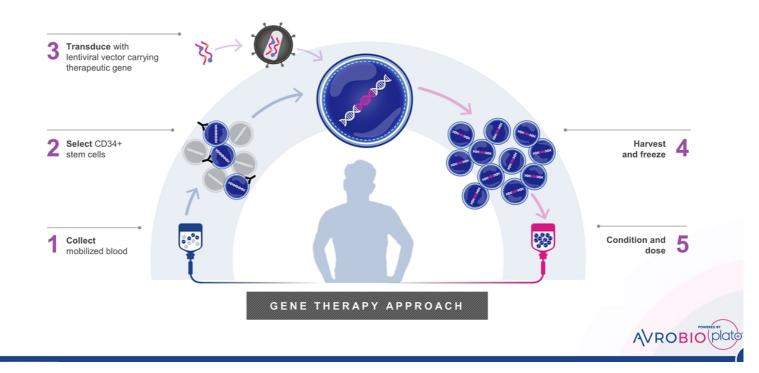
Lifelong treatments vs. potential single-dose therapy



AVROBIO (plate

ERT: Enzyme Replacement Therapy; IV: Intravenous; HSC: Hematopoietic Stem Cells

Established ex vivo lentiviral approach





Fabry Disease

AVR-RD-01

UNMET NEEDS:

Goals for gene therapy in Fabry disease



Kidney function Unmet needs: proteinuria, polyuria, kidney failure



Cardiac function Unmet needs: left ventricular hypertrophy, fibrosis, heart failure



Neuropathic pain Unmet needs: pain and burning sensations in hands and feet, pain crises



CNS complications Unmet needs: TIA/stroke, depression, impaired executive function, white matter hyperintensities



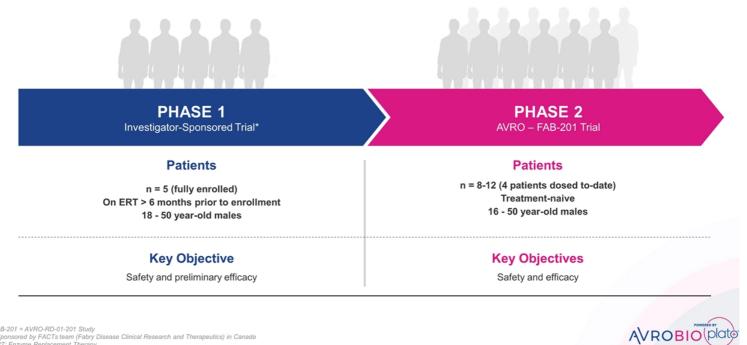
Everyday burden of illness and life expectancy Unmet needs: fatigue, inability to sweat, joint pain, abdominal pain, diarrhea, vomiting, cloudy vision, hearing loss, tinnitus, rash, angiokeratomas, biweekly infusions, shortened lifespan

Sources: Wanner C et al, Med Genetics and Metab, 2018; Burlina A, JIEMS, 2016 CNS: Central Nervous System; TIA: Transient Ischemic Attack



Two AVR-RD-01 Fabry clinical trials

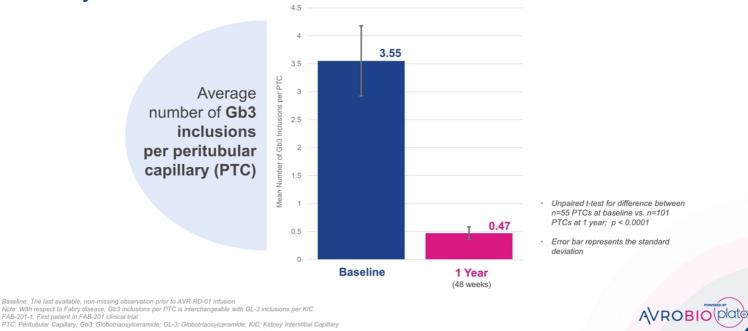
9 patients dosed across Phases 1 and 2



FAB-201 = AVRO-RD-01-201 Study * Sponsored by FACTs team (Fabry Disease Clinical Research and Therapeutics) in Canada ERT: Enzyme Replacement Therapy

		PATIENT 1	PATIENT 2	PATIENT 3	PATIENT 4
	Age of symptom onset / diagnosis	10 / 19 years	36 / 37 years	13 / 13 years	9 / 9 years
	Age dosed with AVR-RD-01	21 years	46 years	40 years	26 years
Fabry	Mutation	c.1021G>A (p.E341K)	c.644A>G (p.N215S)	c.639+1G>T	c.833dupA
Fabry FAB-201 • Patient Characteristics Treatment-naïve Fabry patients	Primary disease signs and symptoms	 Kidney disease Chronic pain GI symptoms Decreased cold sensation 	 Cardiac disease Peripheral neuropathy Chronic pain Increased tiredness GI symptoms Intermittent tinnitus Mild high frequency hearing loss Raynaud's syndrome 	 Kidney disease GI symptoms Peripheral neuropathy Bilateral deafness Tinnitus Peripheral edema Decreased cold sensation 	 Chronic pain Peripheral neuropathy Neuropathic shuffling gait Lethargy Temperature intolerance Tinnitus Hearing loss GI symptoms
	Leukocyte AGA enzyme activity at baseline (nmol/hr/mg protein)	0.10*	2.38**	0.58**	0.46**
	Plasma lyso-Gb3 at baseline (nM)	202***	8***	147***	92***
	Comment	IgA deposits in kidney biopsy	Cardiac variant, not a classic Fabry male		

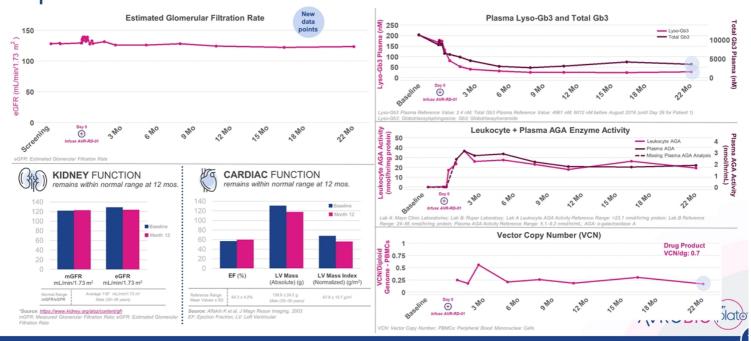
Patient 1: 87% substrate reduction in kidney biopsy at 1 year



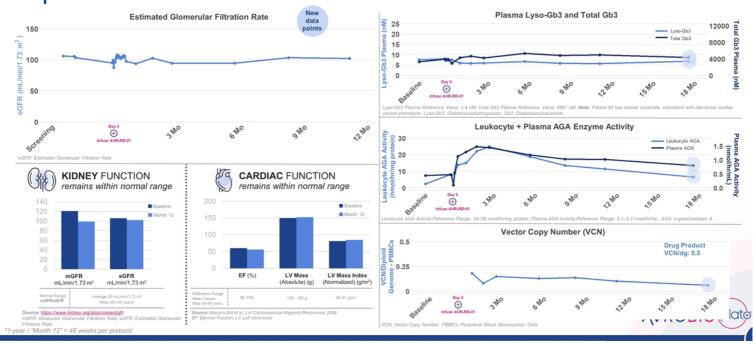
FAB-201 FABRY PHASE 2

New data point

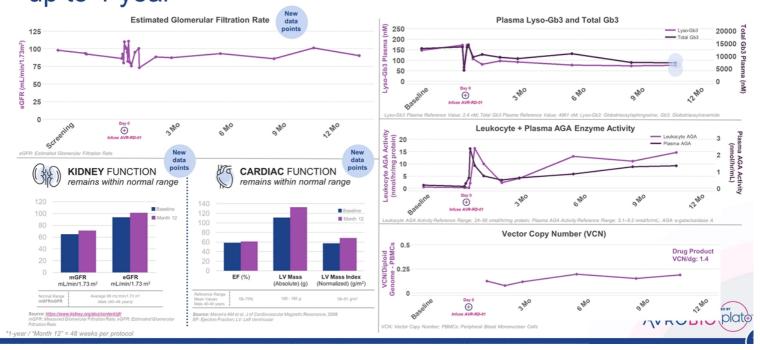
Patient 1: Sustained response across multiple measures up to 22 months



Patient 2: Sustained response across multiple measures up to 18 months



FAB-201 FABRY PHASE 2 Patient 3: Sustained response across multiple measures up to 1 year*



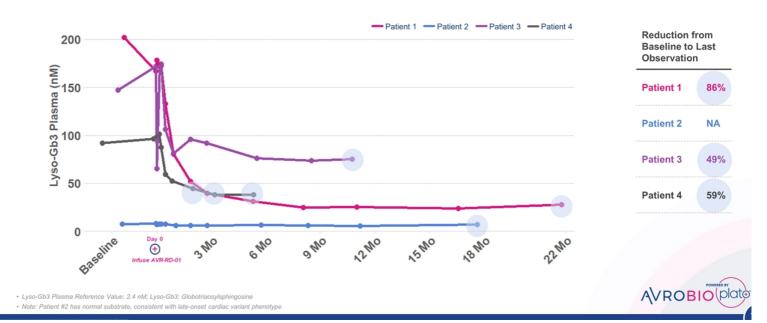
New data point

Patients 1-4: Leukocyte and plasma enzyme activity sustained up to 22 months Patient #4 dosed using plato®



New data point

Patients 1-4: Plasma lyso-Gb3 reduction sustained up to 22 months



Patients 1-4: VCN stable up to 22 months Patient #4 dosed using plato®

New data point



Two AVR-RD-01 Fabry clinical trials

9 patients dosed across Phases 1 and 2



PHASE 1 Investigator-Sponsored Trial*

Patients

n = 5 (fully enrolled) On ERT > 6 months prior to enrollment 18 - 50 year-old males

Key Objectives

Safety and preliminary efficacy

FAB-201 = AVRO-RD-01-201 Study * Sponsored by FACTs team (Fabry Disease Clinical Research and Therapeutics) in Canada ERT: Enzyme Replacement Therapy PHASE 2 VRO – FAB-201 Trial

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AVROBIO (plat

Patients

n = 8-12 (4 patients dosed to-date) Treatment-naive 16 - 50 year-old males

Key Objectives

Safety and efficacy

		PATIENT 1	PATIENT 2	PATIENT 3	PATIENT 4	PATIENT 5
	Age of symptom onset / diagnosis	18 / 37 years	9 / 29 years	10 / 0 years	7 / 4 years	10 / 14 years
	Years on ERT	11 years	6 years	4 years	11 years	2 years
	Age dosed with AVR-RD-01	48 years	39 years	40 years	37 years	30 years
bry	Mutation	c.962A>G (p.Q321R)	c.1033T>C (p.S345P)	c.427G>C (p.A143P)	c.427G>C (p.A143P)	(p.Y134S)
Phase 1 • Patient Characteristics ERT-Treated Fabry Patients	Primary disease signs and symptoms	 Kidney disease Cardiac disease GI pain GI diarrhea Angiokeratoma Insomnia 	 Kidney disease Cardiomyopathy Hypohidrosis Corneal verticillata Peripheral neuropathy GI symptoms Angiokeratoma Lymphedema Acroparesthesia 	 Cardiac Disease Tinnitus Headaches Dizziness Acroparesthesia 	 Cardiac Disease Hypohidrosis Tinnitus Corneal verticillata Angiokeratoma GI symptoms 	 Kidney disease Hypertension Hypohidrosis Tinnitus Migraines Impaired hearing Angiokeratoma Sleep apnea Asthma Depression
	Leukocyte AGA activity at baseline (nmol/hr/mg protein)	2.1*	1.1*	0.6*	2.2*	1.0*
	Plasma lyso-Gb3 at baseline (nM)	25**	26**	59**	29**	16**
	ERT discontinuation status	18 months after gene therapy dose		Did not resume ERT after gene therapy dose	6 months after gene therapy dose	

Patients 1-5: Plasma lyso-Gb3 reduction sustained up to 32 months

All patients who have discontinued ERT remain off ERT*



FABRY PHASE 1

Leukocyte and plasma enzyme activity sustained up to 32 months with consistent trend across all other patients

(+)

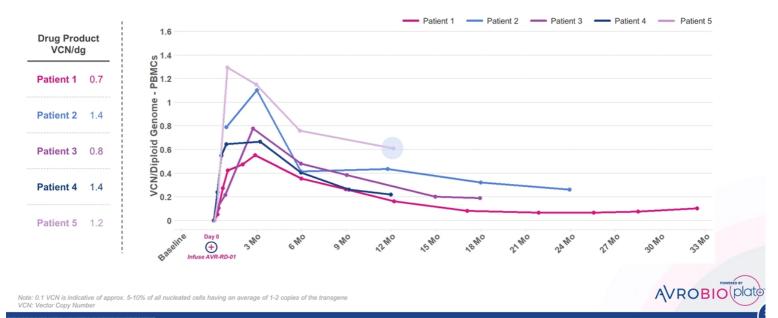
All 5 patients now out 1 year or more



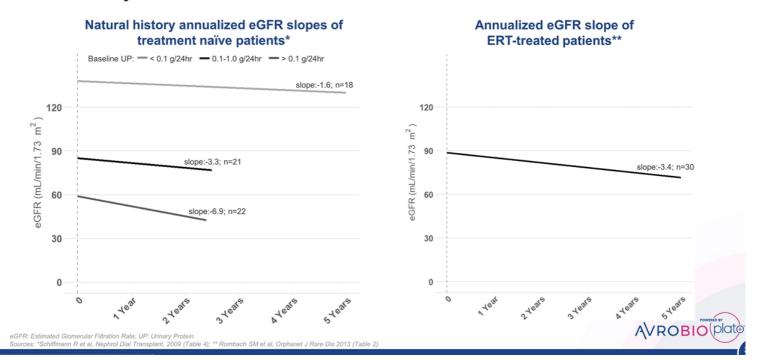
FABRY PHASE 1

Patients 1-5: VCN stable at 32 months with consistent trend across all other patients

All 5 patients now out 1 year or more



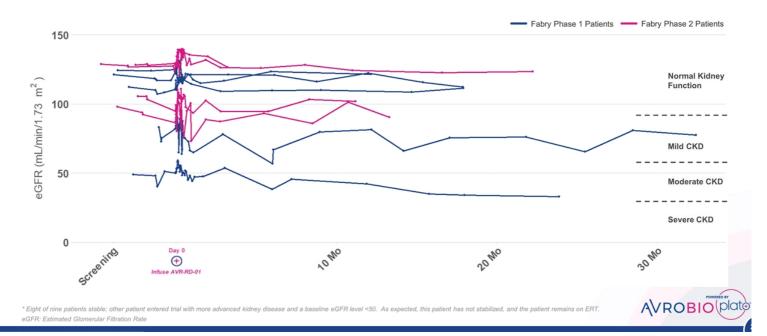
eGFR declines in natural history and on ERT Classic Fabry male literature eGFR data



FABRY PHASE 1 & 2

New data points

Kidney function stable across Phase 1 and Phase 2 trials, up to 32 months*



Phase 1 Fabry (5 patients) and FAB-201 (4 patients)

No unexpected safety events or trends identified

No SAEs related to AVR-RD-01 drug product

AEs and SAEs reported

Phase 1 AEs (n = 100):

 Generally consistent with myeloablative conditioning, underlying disease or pre-existing conditions

FAB 201 AEs (n = 91):

- Generally consistent with myeloablative conditioning, underlying disease or pre-existing conditions
 - Grade 1 or 2 (n = 74)
 - Grade 3 or 4 (n = 17)

Phase 1 SAEs (n = 2):

- · Febrile neutropenia (grade 3)
- Thrombophlebitis (grade 2)

FAB 201 SAEs: (n = 6)

- Pre-treatment and prior to conditioning
- Seizure (grade 2)

Post-treatment

- Dehydration, nausea, vomiting (grade 3)
- Febrile neutropenia (2 patients, grade 3 & 4)

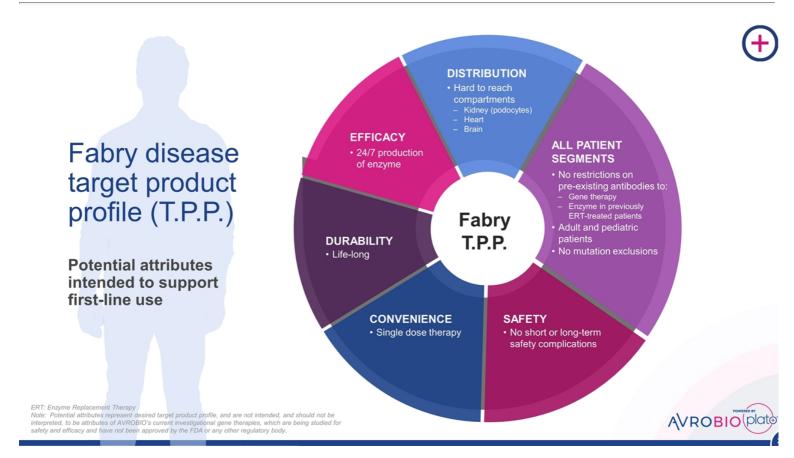
AVROBIO (plat

- Culture negative fevers (grade 2)
- Mucositis (grade 2)

Anti-AGA antibodies

 Anti-AGA antibody titers observed in 4 patients in the Phase 1 trial and 2 patients in FAB-201. We believe none of these are of clinical significance.

Note: Safety data cut off April 23, 2020 AE: Adverse Event; SAE: Serious Adverse Event NOTE: AVR-RD-01 is an investigational gene therapy



Building commercial capabilities

44+ product launches, including 1 gene therapy



- Led commercial teams for LSDs at SanofiGenzyme
- Head of Commercial at SOBI, a rare disease company

SANOFI GENZYME 🌍 sobi



- Led global strategic marketing and global market access functions at AveXis
- Led market access, global strategic pricing and reimbursement functions for LSDs at Shire

Shire avexis





- Extensive orphan drug commercial strategy and launch expertise
- Built out market development and commercial ops at Editas, Zafgen, Cubist, Shire, Biogen

editas **Shire**





- Led value demonstration for insurers globally at AveXis
- Significant access and reimbursement responsibilities at leading global biotech companies





Cystinosis

AVR-RD-04

(+)

AVROBIO (plat

UNMET NEEDS:

Goals for gene therapy in **cystinosis**



Kidney function

Unmet needs: renal Fanconi syndrome, proteinuria, chronic kidney disease, kidney failure



Vision

Unmet needs: corneal cystine accumulation, photophobia, involuntary eyelid closure



Endocrine disorders

Unmet needs: softening/weakening of bones, bone pain, rickets, long bone deformations, hypophosphatemia, delayed growth, hypothyroidism, pancreatic insulin insufficiency, diabetes, infertility



CNS complications

Unmet needs: myopathy, hypotonia, tremors, difficulty swallowing, neurodevelopmental issues (speech and walking delay and cognitive impairment)



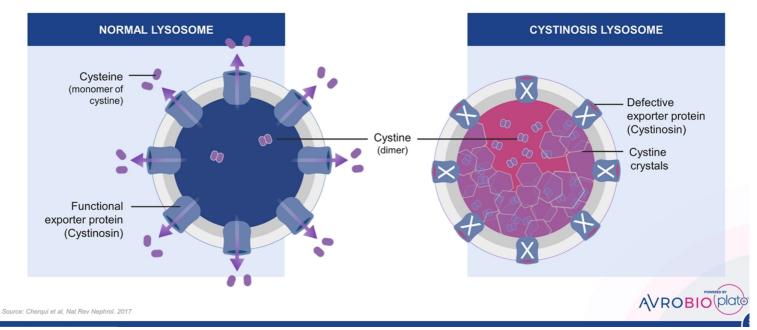
Everyday burden of illness and life expectancy

Unmet needs: medications multiple times per day that cause GI discomfort and sulfur body and breath smell, shortened lifespan

Sources: Ariceta G et al, Nephrol Dial Transplant, 2015; Elmonem M et al, Orphanet Journal of Rare Diseases, 2016; Gahl et al, NEJM, 2002; Bois et al, J Med Genet, 1976 CNS: Central Nervous System; GJ: Gastrointestinal

Cystinosis caused by defective gene that encodes cystinosin, an exporter protein

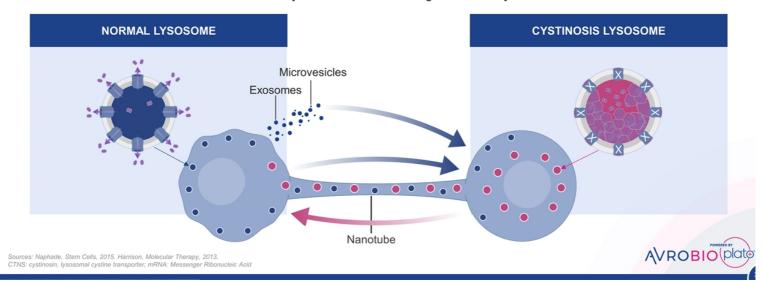
Cystine crystals build up in lysosomes causing tissue and organ damage



Drug product-derived macrophages restore normal cystine recycling

Mechanisms of action

Macrophages with CTNS transgene restore cystine recycling to CTNS-ve cells via:
1. Tunneling nanotubes – transfer of corrected lysosomes, cystinosin, CTNS mRNA
2. Exosomes / Microvesicles – transfer of cystinosin, CTNS mRNA
Net result: Corrected lysosomes in cells throughout the body



Allogeneic transplant demonstrated stabilized renal function, corrected polyuria and improved photophobia

Allogenic HSC Transplant University Hospital Leuven

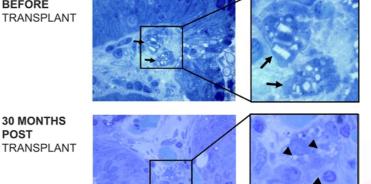
- 16 year old male
- · Diagnosed at 2.7 years old, started on cysteamine
- Age 15 years cysteamine toxicity
- Age 16 years fully matched HLA transplant
- Acute GvHD
- First few months
- Kidney function stabilized
- **Polyuria resolved**
- 6 months
 - Photophobia score reduced from 5 (unable to open eyes even inside dark room) to 0 (no photophobia)

Cystine crystal reduction (31%) in macrophages in gastric mucosa at 30 months post transplant

BEFORE TRANSPLANT

30 MONTHS

POST



Arrows/arrowheads point to tissue macrophages

AVROBIO (plate

nem M A et al, Am. J. Transplant, 2018; HSC: Hematopoietic Stem Cell; HLA: Human Leukocyte Antigen; GvHD: Graft vs Host Dise

Investigator-sponsored* study of AVR-RD-04 in cystinosis patients

Two patients dosed



PHASE 1/2 Investigator-Sponsored Trial*

Patients

Up to 6 patients Adults and adolescents Cohorts 1-2 ≥18 years; Cohort 3 ≥14 years Male and Female On oral and ophthalmic cysteamine

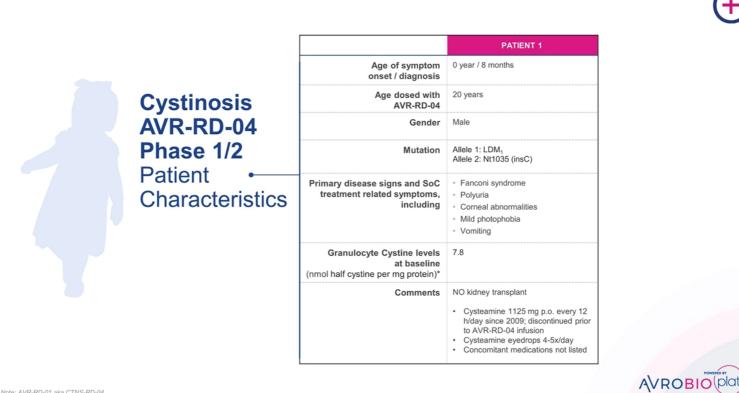
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AVROBIO(Pla

Key Objectives

Safety and efficacy

* Sponsored by University of California, San Diego Note: AVR-RD-04 aka CTNS-RD-04



No unexpected safety events or trends identified

+ No AEs or SAEs related to AVR-RD-04 drug product

No SAEs reported

AEs reported

- · Consistent with myeloablative conditioning and underlying disease
- N = 22 (moderate = 9, mild = 13)
 - Pre-treatment and prior to conditioning (n = 6, not all events listed)
 - Diarrhea, hypokalemia, dizziness
 - Dehydration, vomiting

Post-treatment (n = 16, not all events listed)

- Alopecia, intermittent diarrhea, vomiting
- Mucositis, intermittent febrile neutropenia, intermittent epistaxis

- Intermittent blurry vision, intermittent hypokalemia, mucoceles
- Thrombocytopenia

Note: Safety database cut as of January 27, 2020 for first patient dosed in the trial AE: Adverse Event; SAE: Serious Adverse Event

CYSTINOSIS PHASE 1/2 Patient 1: Initial data indicate positive trends across multiple measures



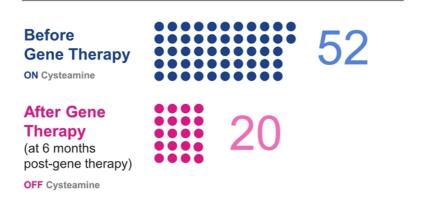
AVROBIO (plat

Asymptomatic Heterozygous Carrier Granulocyte Cystine Range: 0.2 – 1.9 µmol half cystine/g protein Source: Gertsman I et al., Clinical Chemistry, 2016 VCN: Vector Copy Number, CTNS: Cystinesin, Lysosomal Cystine Transporter; mRNA: Messenger Ribonucleic Acid; eGFR: Estimated Glomerular Filtration Rate; SCr: Serum Creatinine *Data obtained using a novel experimental methodology utilizing in vivo confocal microscopy, to image crystals in the skin behind the ear

Patient 1: Reduced treatment burden at 6 months

Number of Medications and Supplements

(max per day)



NOTE: Investigational gene therapy

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AVROBIO(PIC



Gaucher Disease

AVR-RD-02

UNMET NEEDS:



AVROBIO (plate

Hemoglobin levels and platelet counts Unmet needs: anemia, thrombocytopenia, easy bruising, bleeding

Unmet needs: bone pain, avascular necrosis, bone crisis, osteoporosis, fractures,



Hepatosplenomegaly Unmet needs: enlarged liver, enlarged spleen

Bone-related manifestations

joint destruction, skeletal abnormalities



CNS complications Unmet needs: Increased risk of GBA-Parkinson's disease



Everyday burden of illness, and life expectancy Unmet needs: fatigue, pain, lung disease, biweekly infusions, shortened lifespan

Sources: Grabowski G et al. Online Metabolic and Molecular Bases of Inherited Disease, 2018; Weinreb N et al, AJH, 2008; Pastores G et al, Semin Hernatol, 2004 CNS: Central Nervous System; GBA: gene coding for glucocerebrosidase

Goals for gene

Type 1 Disease

therapy in

Gaucher

Long-term follow-up study highlights significant unmet need in Gaucher Type 1

Despite standard-of-care ERT, disease progression continues and unmet need remains.

Incomplete therapeutic response is common:

- 60% of patients failed to achieve at least one of the six therapeutic goals evaluated after 4+ years of ERT¹
- A clinically significant percentage of patients continue to exhibit bone pain, organomegaly and cytopenia after 10 years of ERT²
- 25% of patients continue to suffer from physical limitations after two years of ERT, primarily due to bone disease³

Persistence after 10 years ERT [†]	Non-splenectomized Patients	Splenectomized Patients	
Anemia	12.4%	8.8%	
Thrombocytopenia*	22.7%	0.7%	
Splenomegaly*	38.3%	N/A	
Hepatomegaly*	14.3%	18.8%	
Bone Pain	42.9%	62.5%	
Bone Crisis	7.4%	16.7%	

* Higher persistence rates observed when more severe manifestations were present at baseline

[†] Persistence refers to the presence of anemia, bone pain, bone crisis, or at least moderate thrombocytopenia, splenomegaly, or hepatomegaly, present after 10 years of ERT among those with baseline involvement of these parameters (from a registry of 757 GD1 patients; Weinreb et al., 2013).

Following 10 years of treatment, ~26% of patients were receiving between 45-150 U/kg EOW, and 96% of these individuals were receiving doses between 45-90 U/kg EOW.

Sources: ¹Weinreb N et al. Amer J Hematol, 2008; ²Weinreb N et al. J Inherit Metab Dis, 2013; ³Giraldo P et al. Qual Life Res, 2005. GD1: Gaucher Disease Type 1; SOC: Standard of Care; ERT: Enzyme Replacement Therapy; EOW: Every Other Week



GuardOne: Phase 1/2 study in Gaucher Type 1 patients 🛨

First patient dosed



PHASE 1/2 AVR-RD-02 Trial

Patients

n = 8 - 16 Type 1 Gaucher Treatment naïve or on ERT 16 - 35 year-old Male and Female

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AVROBIO (plat

Key Objectives

Safety, Engraftment, Efficacy, ERT-independence

GAU-201: AVR-RD-02 Study; ERT: Enzyme Replacement Therapy



Pompe disease

AVR-RD-03

TO PREVENT OR IMPROVE:



AVROBIO(pla

Pulmonary function

Unmet needs: respiratory insufficiency, chronic respiratory infections, sleep apnea, artificial ventilation



Physical endurance and strength

Unmet needs: proximal myopathy, progressive muscle weakness in diaphragm, trunk and lower limbs, wheel-chair bound



CNS complications

Unmet needs: neuromuscular control, reduction in executive function, cognitive impairment



GI complications

Unmet needs: macroglossia (childhood onset), difficulty chewing and swallowing, GI symptoms, including irritable bowel-like symptoms



Everyday burden of illness, and life expectancy

Unmet needs: fatigue, hepatomegaly, independent living, biweekly infusions, shortened lifespan

Sources: Barba-Romero M et al, Rev Neurol, 2012; Dasouki M et al, Neurol Clin, 2014; Hagemans M et al, J Neurol, 2007; Musumeci O et al, Eur J of Neurol, 2018

Goals for gene

Pompe Disease

therapy in

Pompe lentiviral gene therapy program advancing

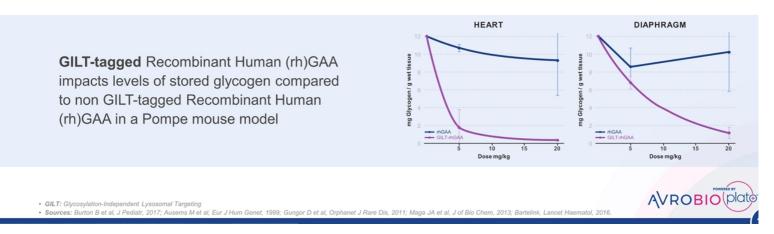


THE CHALLENGE

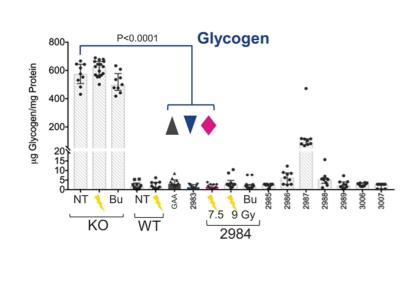
- Pompe requires 20x more ERT than Fabry or Gaucher
- Requires GAA activity restored to **muscle and CNS**

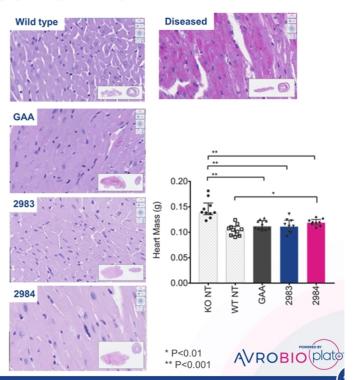
AVROBIO's APPROACH

- Potent transgene promoter
- GILT uptake tag
- Bu90-TDM for CNS impact

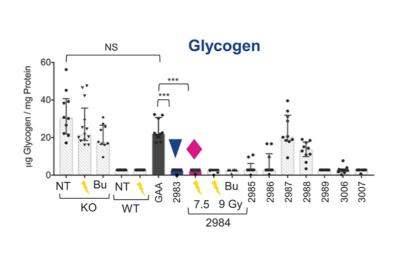


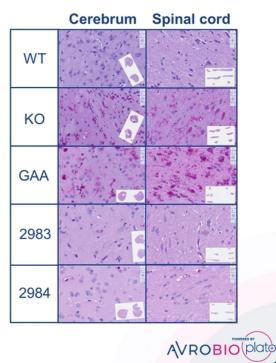
GILT and GILT mutant v1 reduce glycogen by >99% in heart 🕂





Glycogen and GILT and GILT mutant v1 similar to wildtype mice GILT tag is essential for glycogen clearance in CNS (+





*** P<0.001

plato®

AVROBIO's foundation designed to scale gene therapy worldwide

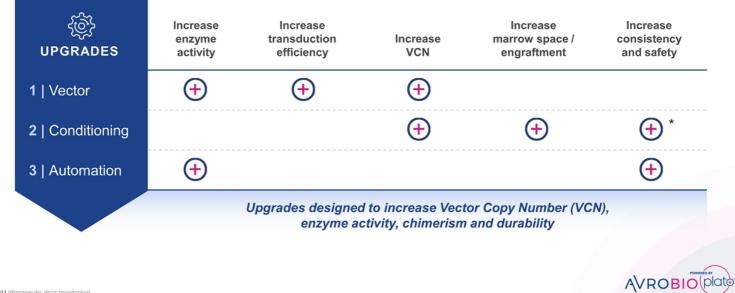
State-of-the-art technologies including automated manufacturing platform

Optimized
 for performance

 Redefines manufacturing best practices

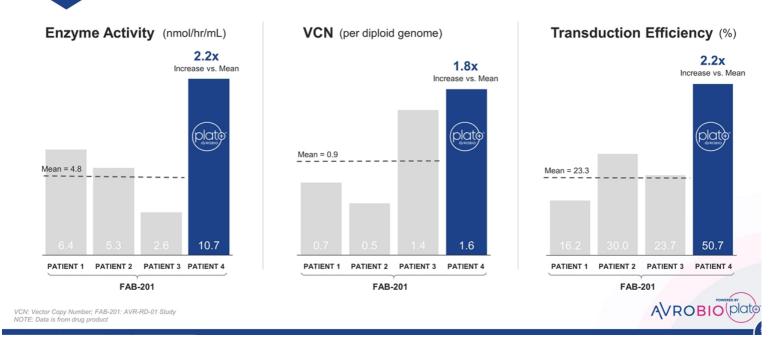


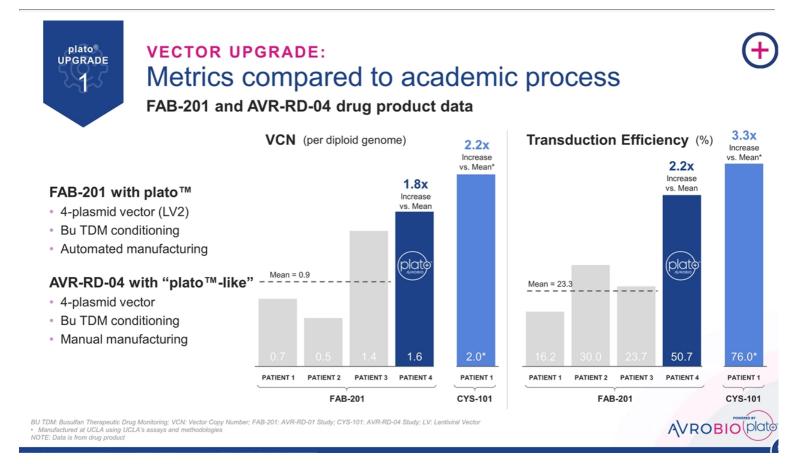
plato®: Three upgrades designed to optimize potency, safety and durability



* TDM (therapeutic drug monitoring)

VECTOR UPGRADE: Metrics compared to academic process FAB-201 patient #4 drug product data with plato®

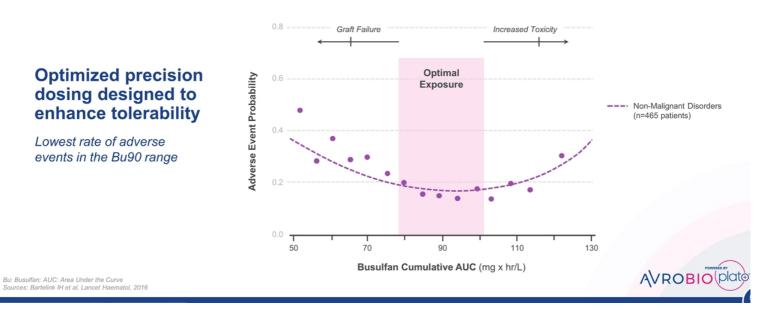






PRECISION CONDITIONING UPGRADE: Targeted busulfan intended to balance optimal engraftment with enhanced safety

Meta-analysis of 465 patients identified optimal exposure

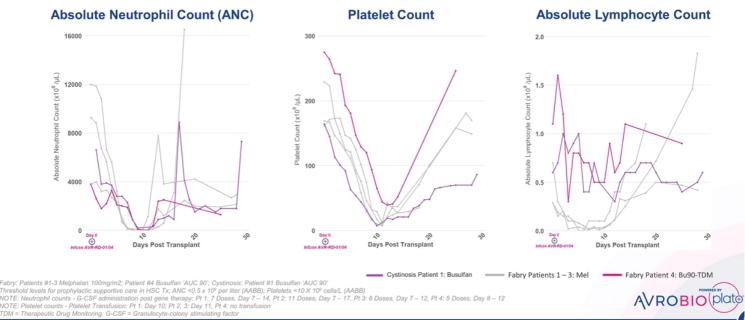




PRECISION CONDITIONING UPGRADE: Precision dosing via state-of-the-art patient therapeutic drug monitoring (TDM)

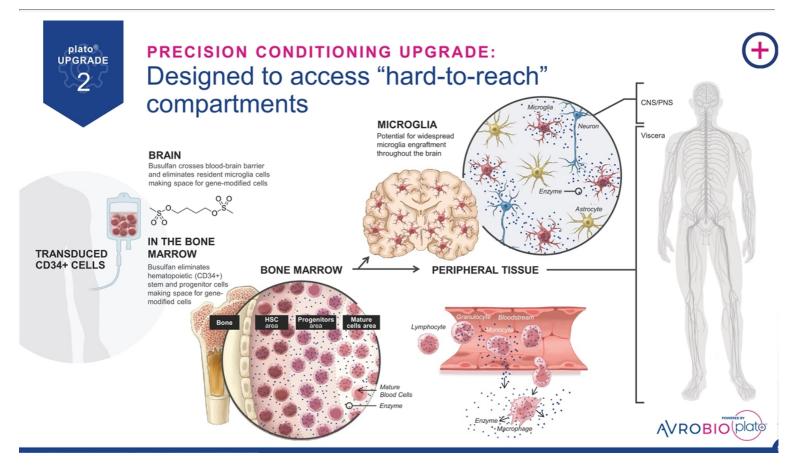
	APHERESIS	PERSONALIZED CONDITIONING WITH PRECISION DOSING	DRUG PRODUCT	PERI-INFUSIO	N PERIOD
4 clinic visits 2 clinic visits 10-12 hr clinic visits			Ambulatory care occurring in close proximity to hospital		
D -70 D -69 D -68 D -67	D -66 D -65	⊭ D-6 D-5 D-4 D-3 D-2 D-1	D 0	D 1 - 7 D 8 - 14	D 15 - 28
Plerixafor SubQ Anticonvulsant tablets BID					
G-CSF	нсс	STARTING DOSE: 3.2 mg/kg TARGET AUC: 90 mg/hr/L +/- 10% AgeWeight AUC	3-20 x 10 ⁶ CD34+ cells/kg	Side-effects typically peak over 2-4 days BLOOD DRAWS To monitor neutrophil and platelet counts Change in platelet Change in platelet Change in platelet Change in platelet Platelet Platelet	
G-CSF: granulocyte colony stimulating factor; PERI-INFUSION PERIOD: time from infusion to discharge; TDM: therapeutic drug monitoring: HSC: hematopoietic stem cell Notes: Illustrative only. AEs will vary patient by patient, see busulfan label for a complete list of side-effects. Ambulatory care based on oncology setting with higher intensity conditioning					

PRECISION CONDITIONING UPGRADE: Rapid neutrophil and platelet recovery with minimal lymphocyte depletion using Busulfan TDM

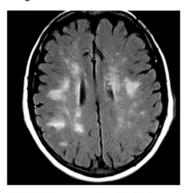


plato® UPGRADE

2



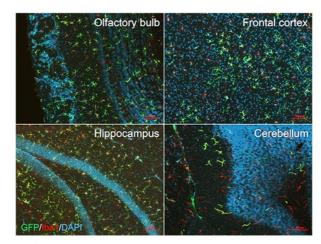
PRECISION CONDITIONING UPGRADE: Designed to access "hard-to-reach" compartments, including the brain



plato® UPGRADE

2

MRI: 54 year old with Fabry disease demonstrating white matter lesions (WMLs)



GFP: Marker of engrafted cells Iba1: Marker of microglia cells DAPI: Nuclear stain irrespective of cell type

Global microglial coverage of mouse brain at 4 months post gene-modified HSC transplantation

- Widespread engraftment in regions critical for cognitive, motor, olfactory, and visual function
- Engrafted microglia/microglia-like cells have comparable morphology and classical lineage markers with endogenous microglia



Source: Buechner S, J. Neurol, Neurosurg, Psychiatry, 2008 MRI: Magnetic Resonance Imaging; ERT: Enzyme Replacement Therapy; WMLs: White Matter Lesions; HSC: Hematopoietic Stem Cell



AUTOMATION UPGRADE: Automated, scalable manufacturing system

Designed to elevate quality and overcome historic CMC bottlenecks



Expanded Scale

Potential to reach thousands of patients per year



Broader Reach

Portable platform designed for flexible global production using low grade clean rooms



High Quality

Automated, closed system designed to improve quality and consistency



Enhanced Convenience

Cryopreservation simplifies logistics and patient scheduling



Lower Costs

Designed to create efficiencies in vector design / scalable cell and vector production



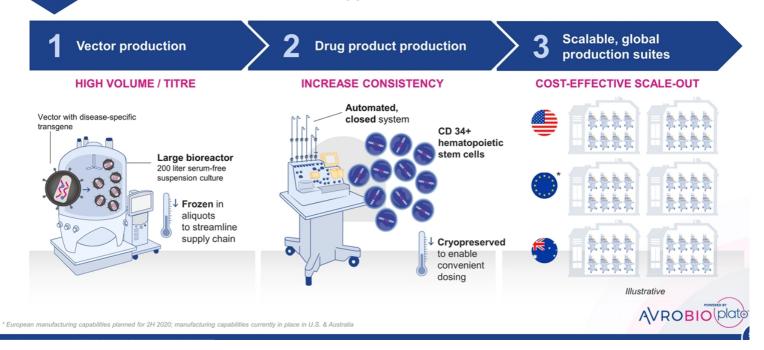
AUTOMATION UPGRADE: Designed to deliver large-scale manufacturing

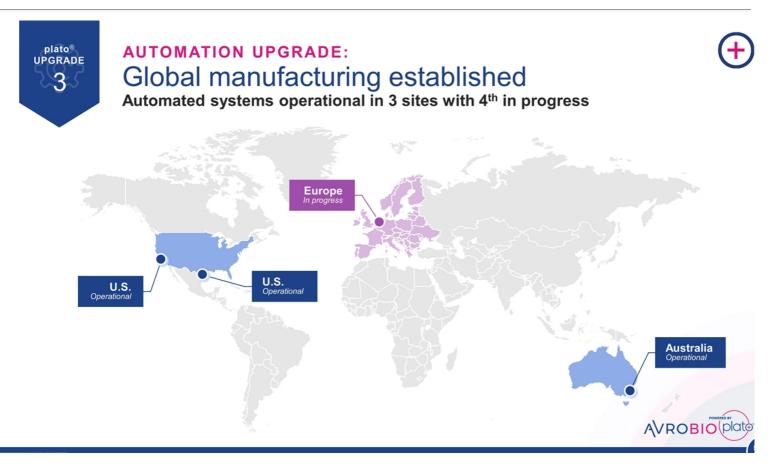
Differentiated, cost-effective approach

plato®

UPGRADE

3

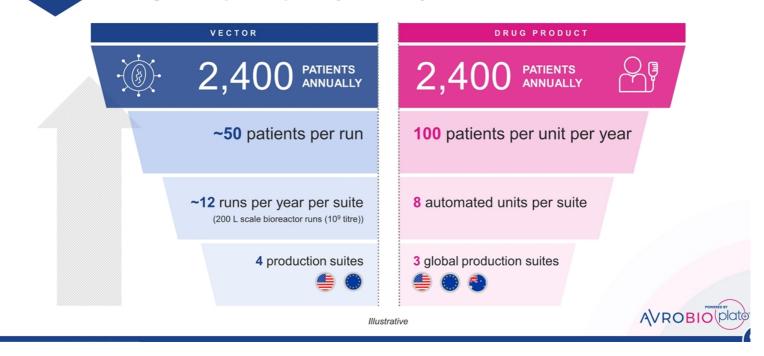






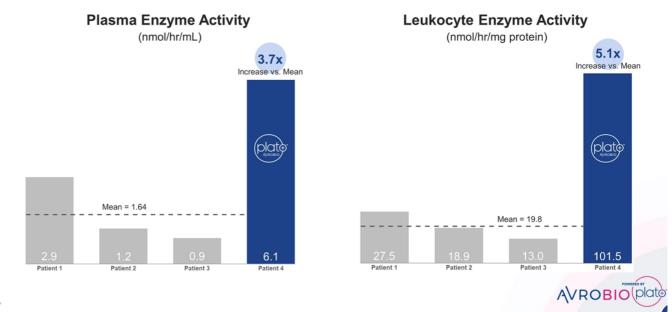
AUTOMATION UPGRADE: Poised to manufacture at scale

Designed to optimize potency and safety, and overcome historic CMC bottlenecks



3 UPGRADES IN PLACE: Not plato[®] metric compared to academic process

FAB-201 SIX MONTH data for patient #4 with plato® vs. patients #1-3



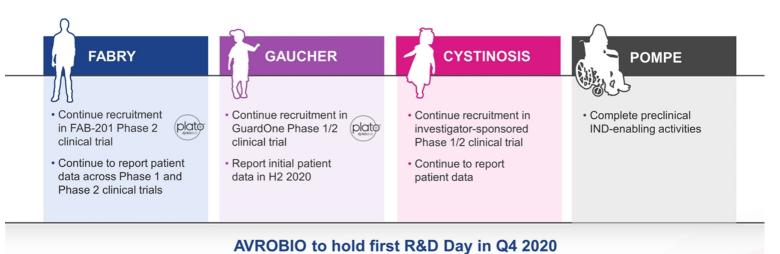
FAB-201: AVR-RD-01 Study

plato® UPGRADE

1, 2, 3

Milestones anticipated across the pipeline in 2020

Clinical activities and timelines subject in all respects to ongoing and evolving COVID-19 pandemic*



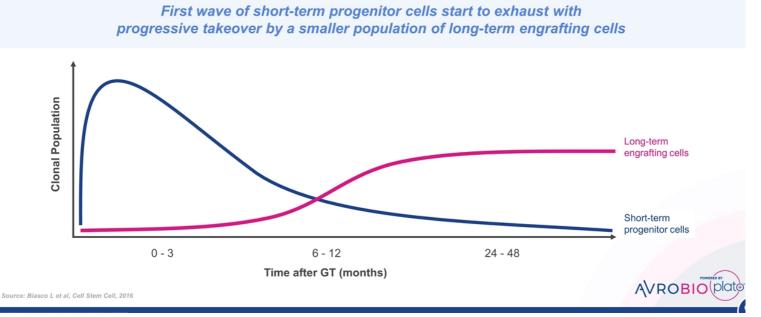
* For additional information, see the Company's Quarterly Report on Form 10-Q filed with the SEC on August 6, 2020.





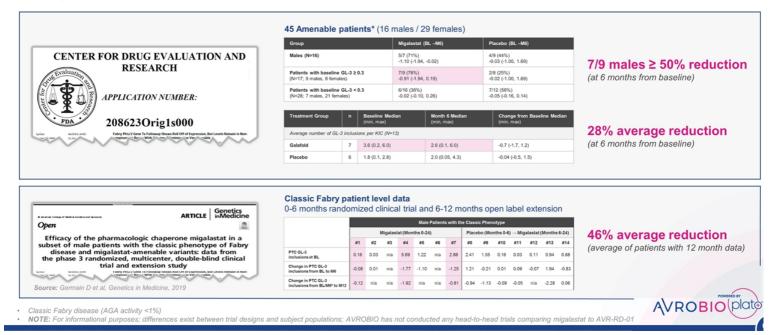
Appendix

Hematopoietic reconstitution occurs in two distinct phases $\textcircled{\bullet}$ A few thousand long-term engrafting cells stably sustain levels of transgene product



Precedent for use of kidney biopsy data for FDA approval of drug candidate for Fabry disease

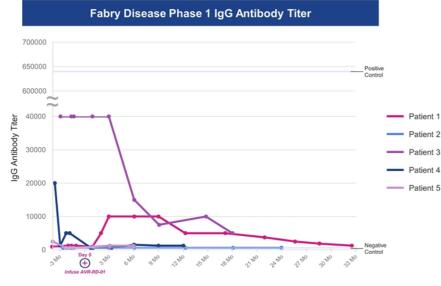
Migalastat approved on % reduction in GL-3 inclusions per KIC as compared to placebo



FABRY PHASE 1

Reduction of pre-existing anti-ERT drug IgG antibodies following AVR-RD-01

Suggests potential as a therapeutic option independent of pre-existing antibodies



ERT: Enzyme Replacement Therapy; IgG: Immunoglobulin G; MPS-1: Mucopolysaccharidosis Type 1; IDUA: Iduronidase: SR-TIGET: San Raffaele Telethon Institute for Gene Therapy; LV: Lentiviral; rhIDUA: Recombinant Human alpha-L-Iduronidase

Similar Results Observed in Other Studies

San Raffaele Telethon Institute for Gene Therapy (SR-TIGET)

Change in pre-existing antibodies reported for Hurler disease (MPS-1)

- Ex vivo LV-CD34+ gene therapy with conditioning
 N = 6
- Evaluable patients (5/6) demonstrated sustained, supraphysiologic blood IDUA activity
- 4/5 prior ERT (rhIDUA) exposure (5-28 months)
- 4/5 pre-existing ERT-induced IgG antibodies
- 6/6 anti-rhIDUA IgGs undetectable 2 months post gene therapy

Source: Gentner B et al., Blood, 2019



New collaborations advancing leadership in lentiviral gene therapy



Fully Automated Bu-TDM Immunoassay

- AVROBIO and Saladax announced agreement to develop and validate Saladax's fully automated nanoparticle immunoassay kit
- · Designed to work on most automated hospital analyzers
- Regular technician, 24/7 analysis possible with results anticipated in minutes using only microLs of blood
- Designed to analyze 10-100s samples per machine/hour
- Expected to eliminate Bu degradation errors as assay conducted in real-time at the point of care
- Scalable





- AVROBIO and Magenta announced research & clinical collaboration agreement to evaluate Magenta's preclinical CD117-targeted antibody conjugate to amanitin (MGTA-117) in conjunction with AVROBIO investigational gene therapies
- Designed to deplete only hematopoietic stem and progenitor cells
- · Has shown promising data in non-human primates
- MGTA-117 currently in IND-enabling studies
- Each party retains commercial rights to its own programs